

Title (en)

Wireless Communication Device Capable of Utilizing Multiple Radio Access Technologies

Title (de)

Drahtlose Kommunikationsvorrichtung mit Möglichkeit zur Verwendung mehrerer Funkzugangstechnologien

Title (fr)

Dispositif de communication sans fil capable d'utiliser de multiples technologies d'accès radio

Publication

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Application

EP 12007627 A 20121109

Priority

- US 201161562196 P 20111121
- US 201113335449 A 20111222

Abstract (en)

A wireless communication device is disclosed that is capable of utilizing multiple radio access technologies (RATs) in various coordinated ways so as to optimize, and enhance the versatility, of the device's communication capabilities. One or more RATs may be selected for use, either alone or in cooperation with each other, based on various conditions, such as channel conditions, traffic, data type, and priority. When conditions change, the originally-selected communication scheme may no longer be preferred. Consequently, the device can initiate a handover to another communication scheme. Transmitters corresponding to RATs that are not currently selected are controlled to enter a low-power state in order to conserve power. However, in some circumstances, the device may utilize both RATs simultaneously. For example, redundant communications can be made over both RATs for error-reduction or other purposes, and partial communications can be made over multiple RATs for increased speed and bandwidth, among other reasons.

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

US11129052B2; WO2018013019A1

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BA ME

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EP 12007627 A 20121109; CN 201210472957 A 20121120; KR 20120132440 A 20121121; TW 101140961 A 20121105; US 201113335449 A 20111222; US 201514658977 A 20150316